

COCOM DOCUMENT 4150

Copy No. 51

COORDINATING COMMITTEE

TELECOMMUNICATIONS PROJECT BETWEEN FINLAND AND THE U.S.S.R.

Memorandum by the United Kingdom Delegation

Her Majesty's Government have been asked to approve a project to supply

- (a) terminal and intermediate equipment for a 4 megacycle coaxial telecommunications system between Helsinki in Finland and Viipuri (formerly Vyborg) in the U.S.S.R.; and
- (b) terminal equipment at Leningrad to provide facilities for one supergroup (60 voice channels) to connect with the Helsinki-Viipuri system in (a).

2. Details of the equipment which the United Kingdom exporter wishes to supply are attached as follows:

Annex A lists the equipment required for installation in Finland;

Annex B lists the equipment required for installation on Soviet territory between the Finnish frontier and Viipuri;

Annex C specifies the terminal equipment required at Leningrad.

The equipment is all covered by item 1523. It is however relatively unsophisticated equipment of less advanced design than some systems already in operation in the Soviet Union. (The equipment is not transistorised). As regards the terminal equipment required at Leningrad (Annex C) it should be noted that the existing administrative exceptions note to I.L. 1523 applies.

3. The value of the projected exports is in the region of \$ 700,000 of which only approximately one-fifth represents equipment for installation inside the Bloc. It would not be possible for the company to tender for the Finnish portion alone. No enquiry for cable has been received by the United Kingdom company and they presume it would be supplied either from Finland or from internal Bloc sources.

4. The complete project from Helsinki to Leningrad would replace existing overhead lines and would connect at Leningrad with an 8 megacycle coaxial line which is already installed and in operation between Moscow and Leningrad. As will be seen from the C.C.I.F. map of part of the international telecommunications system, attached at Annex D, the additional facilities would provide a marked improvement in communications between Russia and the West.

5. In the view of Her Majesty's Government this equipment represents a bona fide civilian requirement and there is no danger of its being diverted for other purposes. Since the appropriateness of improving the communications systems between the East and West is already recognised in a number of places in the International Lists, Her Majesty's Government wish to authorise the export of the equipment listed in Annex B hereto as an ad hoc exception. The United Kingdom Delegation would be grateful for the views of other member Governments by October 10.

United Kingdom Delegation,
PARIS.
September 19, 1960

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LIST A EQUIPMENT FOR INSTALLATION IN FINLAND BETWEEN
HELSINKI - POORVOO - KOUVOLA - LAPPEENRANTA - USSR BORDER

<u>Functional Description</u>	<u>Quantity</u>
1. <u>Dependent Repeaters:</u>	
1. Dependent Repeater Racksides A to B	20
2. Dependent Repeater Racksides B to A	20
2. <u>Main Repeaters:</u>	
1. Main Repeater Rackside A to B	1
2. Main Repeater Rackside B to A	1
3. Main Repeater Supervisory Rackside	1
3. <u>Terminal Repeaters:</u>	
1. Terminal Repeater Transmit Rackside	3
2. Terminal Repeater Receive Rackside	3
3. Terminal Repeater Supervisory Rackside	3
4. <u>Supergroup Translating Equipment (S/G 1-4):</u>	
1. Supergroup Translating Rackside for S/G's 1-4	3
5. <u>Supergroup Translating Equipment (S/G 5-10):</u>	
1. Supergroup Translating Rackside for S/G's 5-10	2
6. <u>Group Translating Equipment</u>	
1. Group Translating Rackside for 4 Basic S/Groups (Helsinki)	1
2. Group Translating Rackside for 1 Basic S/Group (Lahti)	1
3. Group Translating Rackside for 2 Basic S/Groups (Kouvola)	1
4. Group Translating Rackside for 3 Basic S/Groups (Lappeenranta)	1
5. Group Translating Rackside for 2 Basic S/Groups (Lappeenranta)	1
7. <u>Through Supergroup Equipment</u>	
1. Through Supergroup Racksides equipped for 2 B/W Supergroups (Hämeentima and Lahti)	2
2. Through Supergroup Rackside equipped for 4 B/W Supergroups (Kouvola)	1
3. Through Supergroup Racksides equipped for 1 B/W Supergroup (Kouvola and Lappeenranta)	2

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<u>Functional Description</u>	<u>Quantity</u>
8. <u>Through Group Filter Equipment</u>	
1. Through Group Filter Racksides equipped for 2 B/W Groups (Helsinki and Kouvola)	2
2. Through Group Filter Racksides equipped for 3 B/W Groups (Lahti and Lappeenranta)	2
9. <u>Channel Equipment (444 Channel Ends)</u>	
1. Channel Rackside equipped for one Group (Turku, Tampere, Lahti, Niekkelä, Kotha and Lappeenranta)	6
2. Channel Rackside equipped for 2 Groups (Helsinki and Kouvola)	2
3. Channel Rackside equipped for 3 Groups (Helsinki, Lappeenranta and Imatra)	9
10. <u>2/4W Terminating Equipment</u>	
1. Hybrid Coils (Loose)	444
11. <u>Master Oscillator, Channel, Group and Supergroup Carrier Supply</u>	
1. Master Oscillator and Channel Carrier Supply Rackside (Lappeenranta)	1
2. Group and Supergroup Carrier Supply Rackside (Lappeenranta)	1
3. Supergroup Carrier Filter and Amplifier Rackside for S/Grps. 1 to 4 only (Lappeenranta)	1
4. Carrier Distribution Rackside (Lappeenranta)	1
5. Carrier Distribution Rackside (Backing) (Lappeenranta)	1
12. <u>Supergroup Carrier Supply for S/G 1 to 10</u>	
<u>ALTERNATIVE (i):-</u>	
1. Master Oscillator of Channel Carrier Supply Rackside (Kouvola)	1
2. Group and Supergroup Carrier Supply Rackside (Kouvola)	1
3. Supergroup Filter and Amplifier Rackside for S/G 1 to 10 only (Kouvola)	1
4. Carrier Distribution Rackside (Kouvola)	1
5. Carrier Distribution Rackside (Backing) (Kouvola)	1
<u>ALTERNATIVE (ii):-</u>	
6. Supergroup Filter and Amplifier Rackside for S/G 1 to 10 to operate from a fully equipped STC Rackside 16-LTE)23..	1

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<u>Functional Description</u>	<u>Quantity</u>
13. <u>Maintenance and Transmission Measuring Equipment</u>	
1. Selective Level Measuring Set 74137.C	2
2. Selective Level Measuring Attachment 74138.A	2
3. Transmission Measuring Equipment 74156.A	2
4. Level Measuring Set 74164.A	2
5. Transmission Measuring Equipment 74507.B	2
6. Sending Equipment 74152.B	2
14. <u>Maintenance Equipment for Dependent Repeaters</u>	
1. Transmission Measuring Equipment 74610.D	2
<u>OPTIONAL ITEM:-</u>	
2. Repeater Testing Equipment 74505.B	
15. <u>Spare Panels</u>	
1. Line Amplifier for items 1.1. and 1.2	Reasonable quantities to be established
2. Line Amplifier for items 2.1 and 2.2	
3. Line Amplifier for items 3.1 and 3.2	
4. Flat Amplifier for items 3.1 and 3.2	
5. Auxiliary Trans. Amp for 4.1	
6. S/Group Demod. Amp for 4.1 and 5.1	
7. S/Group Amp. for 6.1, 6.2, 6.3, 6.4 and 6.5	
8. S/Group Amp. for 7.1, 7.2, and 7.3	
9. Channel Carrier Amp. for 11.1 and 12.1	
10. Group Carrier Amp. for 11.2 and 12.2	
11. S/Grp Carrier Amp for 11.3 and 12.3	
16. <u>Consumable Spares</u>	
1. Consumable spares for equipment offered, for about 2 years' service.	-
17. <u>Spare Valves</u>	
1. Set of spare valves for equipment offered, for about 2 years' service	-
18. <u>Drawings and Handbooks</u>	
1. Set of drawings and handbooks	6

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LIST B EQUIPMENT FOR INSTALLATION IN THE U.S.S.R. BETWEEN
U.S.S.R. BORDER AND VIETNAM

<u>Functional Description</u>	<u>Quantity</u>
1. <u>Dependent Repeaters</u>	
1. Dependent Repeater Racksides A to B	4
2. Dependent Repeater Racksides B to A	4
2. <u>Terminal Repeater</u>	
1. Terminal Repeater Transmit Rackside	1
2. Terminal Repeater Receive Rackside	1
3. Terminal Repeater Supervisory Rackside	1
3. <u>Supergroup Translating Equipment</u>	
1. Supergroup Translating Rackside for S/G's 1 to 4	1
4. <u>Through Supergroup Equipment</u>	
1. Through Supergroup Rackside Equipped for 1 S/W Supergroup	1
5. <u>Master Oscillator, Pilot and S/Group Carrier Supply</u>	
1. Master Oscillator Rackside	1
2. Supergroup Carrier and Pilot Supply Rackside	1
3. Supergroup Carrier Amplifier and Pilot Supply Rackside for S/Groups 1 to 4 only.	1
4. Carrier Y Pilot Distribution Rackside	1
6. <u>Maintenance and Transmission Measuring Equipment</u>	
1. As for list "A" items 13.1 to 13.6 but quantity 1 of each only	
7. <u>Maintenance Equipment for Dependent Repeaters</u>	
1. As for list "A" item 14.1 but quantity 1 only	
2. As for list "A" item 14.2 but quantity 1 only	
8. <u>Spare Panels</u>	
1. Line Amplifier for items 1.1 and 1.2	} reasonable quantities to be established
2. Line Amplifier for items 2.1 and 2.2	
3. Flat Amplifier for items 2.1 and 2.2	
4. Aux. Trans. Amp. for item 3.1	
5. S/Group Demod. Amp. for item 3.1	
6. S/Group Amplifier for item 5.1	
7. S/Group Carrier Amp. for item 5.3	

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<u>Functional Description</u>	<u>Quantity</u>
9. <u>Consumable spares</u>	
1. Consumable spares for equipment offered for about 2 years' service	-
10. <u>Spare Valves</u>	
1. Set of spare valves for equipment offered for about 2 years' service	-
11. <u>Drawings and Handbooks</u>	
1. Set of Drawings and Handbooks	6
<u>LIST C TERMINAL EQUIPMENT FOR Leningrad</u>	
1. <u>Group Translating Equipment</u>	
1. Group Translating Rackside for one Basic S/Group	1
2. <u>Channel Equipment</u>	
1. Channel Rackside equipped for 2 Groups	1
2. Channel Rackside equipped for 3 Groups	1
3. <u>2/4w Terminating Equipment</u>	
1. Hybrid Coils (loose)	60
4. <u>Master Oscillator, Channel and Group Carrier Supply</u>	
1. Master Oscillator and Channel Carrier Supply Rackside	1
2. Group Carrier Supply Rackside	1
3. Carrier Distribution Rackside	1
4. Carrier Distribution Rackside (Backing)	
5. <u>Spare Panels</u>	
1. S/Group Amplifiers for item 1.1	Reasonable quantities to be established
2. Channel Carrier Amp. for item 4.1	
3. Group Carrier Amp. for item 4.2	
6. <u>Consumable Spares</u>	
1. Consumable spares for equipment offered for about 2 years' service	
7. <u>Spare Valves</u>	
1. Set of spare valves for equipment offered for about 2 years' service	
8. <u>Drawings and Handbooks</u>	
1. Set of drawings and handbooks	6

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